LSU Northeast Research Station

Evaluation of Lexar for weed control in corn.

Trial ID: SJ05C005 Study Dir.: HMS003A4-2005US
Location: Investigator: Bill Williams

## GENERAL TRIAL INFORMATION

**Study Director:** HMS003A4-2005US
**Investigator:** Bill Williams

**Conducted Under GLP (Y/N):** N **Conducted Under GEP (Y/N):** N

**Conclusions:** Preemergence applications of 3 qt/A Lexar resulted in poor control of most weeds evaluated in this study. Increasing the Lexar rate to 3.5 qt/A greatly improved weed control. Lexar at 3.5 qt/A resulted in the best season long control of signalgrass and sicklepod. Few differences between treatments were observed for teaweed and morningglory control. Preemergence applications of Lexar also resulted in superior weed control compared to early postemergence applications of Steadfast or Roundup. Note, however, that the Steadfast rate (0.5 oz/A) was less than recommended (0.75 oz/A) and that reduced rates of Steadfast are not recommended. Since weeds had already emerged before the V1 applications were activated, V1 applications of Lexar and Bicep were less effective than preemergence applications. Lexar appeared to have more postemergence activity than Bicep, especially on sicklepod. In several cases, adding a non-ionic surfactant improved weed control when either Lexar or Bicep were applied at the V1 stage. Few statistical differences between treatments were observed for corn yield. Corn yields did improve from 123 to 158 bu/a when the Lexar rate was increased from 3 to 3.5 qt/A. Corn yields more than doubled when nonionic surfact was added to postemergence applications of Lexar or Bicep II Magnum. Overall, the best corn yields (158 to 160 bu/A) were observed from preemergence applications of Lexar, Bicep II Magnum or Lumax.

## CROP AND WEED DESCRIPTION

| Weed | Code | Common Name | Scientific Name |
|---|---|---|---|
| 1. | BRAPP | Signalgrass, broadleaf | Brachiaria platyphylla |
| 2. | DIGSA | Crabgrass, large | Digitaria sanguinalis |
| 3. | CASOB | Sickle pod | Cassia obtusifolia |
| 4. | CYPES | Nutsedge, yellow | Cyperus esculentus |
| 5. | SIDSP | Teaweed | Sida spinosa |
| 6. | IPOHE | Morningglory, entireleaf | Ipomoea hederacea |

**Crop 1:** ZEAMX CORN, FIELD **Variety:** Gensis 2A16RR
**Planting Date:** 4/4/05 **Planting Method:** BEDDED
**Rate:** 30000 LB/A **Depth:** 2 "
**Row Spacing:** 40 " **Seed Bed:** FINE/TRASHY
**Soil Moisture:** DRY **Emergence Date:** 4/11/05

## SITE AND DESIGN

**Plot Width, Unit:** 13.3 FT **Plot Length, Unit:** 30 FT **Reps:** 3
**Site Type:** FIELD
**Tillage Type:** CONVENTIONAL-TILL **Study Design:** RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

**% Sand:** 34 **% OM:** 0.6 **Texture:** Silt loam
**% Silt:** 54 **pH:** 5.3 **Soil Name:** Commerce silt loam
**% Clay:** 12 **CEC:** 6.3 **Fert. Level:** EXCELLENT

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**MOISTURE CONDITIONS**

| | Date | Time | Amount | Unit | Type | Interval | Unit |
|---|---|---|---|---|---|---|---|
| 1. | 4/6/05 | 5:30 AM | 0.26 | in | Rainfall | 0 | n/a |
| 2. | 4/12/05 | 3:00 PM | 0.88 | in | Rainfall | 0 | n/a |
| 3. | 4/26/05 | 3:00 AM | 1.04 | in | Rainfall | 0 | n/a |
| 4. | 4/27/05 | 8:30 AM | 0.04 | in | Rainfall | 0 | n/a |
| 5. | 4/30/05 | 3:00 AM | 0.21 | in | Rainfall | 0 | n/a |
| 6. | 5/10/05 | 6:30 PM | 0.25 | in | Rainfall | 0 | n/a |
| 7. | 5/15/05 | 5:30 PM | 0.46 | in | Rainfall | 0 | n/a |
| 8. | 5/25/05 | 8:00 PM | 0.78 | in | Rainfall | 0 | n/a |
| 9. | 5/29/05 | 1:00 AM | 0.63 | in | Rainfall | 0 | n/a |
| 10. | 5/30/05 | 11:00 A | 1.51 | in | Rainfall | 0 | n/a |
| 11. | 5/31/05 | 8:00 PM | 0.26 | in | Rainfall | 0 | n/a |
| 12. | 6/2/05 | 4:00 PM | 0.04 | in | Rainfall | 0 | n/a |
| 13. | 6/6/05 | 7:00 PM | 0.39 | in | Rainfall | 0 | n/a |
| 14. | 6/18/05 | 11:00 A | 0.42 | in | Rainfall | 0 | n/a |
| 15. | 7/3/04 | 6:00 PM | 0.06 | in | Rainfall | 0 | n/a |
| 16. | 7/6/05 | 1:30 PM | 1.6 | in | Rainfall | 0 | n/a |
| 17. | 7/8/05 | 1:45 PM | 0.93 | in | Rainfall | 0 | n/a |
| 18. | 7/10/05 | 1:00 PM | 0.04 | in | Rainfall | 0 | n/a |
| 19. | 7/14/05 | 2:00 PM | 0.44 | in | Rainfall | 0 | n/a |
| 20. | 7/16/05 | 10:00 P | 0.04 | in | Rainfall | 0 | n/a |
| 21. | 7/17/05 | 1:00 PM | 0.25 | in | Rainfall | 0 | n/a |
| 22. | 7/18/05 | 7:00 PM | 0.05 | in | Rainfall | 0 | n/a |
| 23. | 7/22/05 | 2:30 PM | 0.15 | in | Rainfall | 0 | n/a |
| 24. | 8/4/05 | 3:30 PM | 0.27 | in | Rainfall | 0 | n/a |
| 25. | 8/5/05 | 8:00 PM | 0.45 | in | Rainfall | 0 | n/a |
| 26. | 8/6/05 | 6:00 PM | 0.25 | in | Rainfall | 0 | n/a |
| 27. | 8/16/05 | 6:00 PM | 1.31 | in | Rainfall | 0 | n/a |
| 28. | 8/22/05 | 9:00 PM | 0.05 | in | Rainfall | 0 | n/a |

**Overall Moisture Conditions:** Dry
**Closest Weather Station:** Northeast Research Station **Distance:** 0.25 **Unit:** mi

**APPLICATION DESCRIPTION**

| | A | B | C |
|---|---|---|---|
| **Application Date:** | 4/4/05 | 4/14/05 | 4/22/05 |
| **Time of Day:** | 2:00 | 10:00 | 11:00 |
| **Application Method:** | SPRAY | SPRAY | SPRAY |
| **Application Timing:** | PRE | V1 | EPOST |
| **Applic. Placement:** | BROSOI | BROFOL | BROFOL |
| **Air Temp., Unit:** | 76 F | 69 F | 81 F |
| **% Relative Humidity:** | 46 | 50 | 60 |
| **Wind Velocity, Unit:** | 6 SE | 4.5 N | 6.5 S |
| **Soil Temp., Unit:** | 75 F | 75 F | 84 F |
| **Soil Moisture:** | moist | dry | dry |
| **% Cloud Cover:** | 0 | 40 | 40 |

**CROP STAGE AT EACH APPLICATION**

| | A | B | C |
|---|---|---|---|
| **Crop 1 Code, Stage:** | ZEAMX n/a | ZEAMX V1 | ZEAMX V2 |
| **Stage Scale:** | n/a | 2 in | 4 in |

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**WEED STAGE AT EACH APPLICATION**

| | A | B | C |
|---|---|---|---|
| **Weed 1 Code, Stage:** | BRAPP n/a | BRAPP 1 lf | BRAPP 2-3 lf |
| **Stage Scale:** | n/a | 0.5 in | 1-2 in |
| **Weed 2 Code, Stage:** | DIGSA n/a | DIGSA n/a | DIGSA n/a |
| **Stage Scale:** | n/a | n/a | n/a |
| **Weed 3 Code, Stage:** | CASOB n/a | CASOB cot | CASOB 1-2 lf |
| **Stage Scale:** | n/a | 0.5 in | 1-2 in |
| **Weed 4 Code, Stage:** | CYPES n/a | CYPES n/a | CYPES n/a |
| **Stage Scale:** | n/a | 2-6 in | 6-8 in |
| **Weed 5 Code, Stage:** | SIDSP n/a | SIDSP n/a | SIDSP cot |
| **Stage Scale:** | n/a | n/a | 0.5 in |
| **Weed 6 Code, Stage:** | IPOHE n/a | IPOHE n/a | IPOHE 1 lf |
| **Stage Scale:** | n/a | n/a | 1 in |

**APPLICATION EQUIPMENT**

| | A | B | C |
|---|---|---|---|
| **Appl. Equipment:** | Tractor | Tractor | Tractor |
| **Operating Pressure:** | 34 | 34 | 34 |
| **Nozzle Type:** | Ven. | Ven. | Ven. |
| **Nozzle Size:** | 11002 | 11002 | 11002 |
| **Nozzle Spacing, Unit:** | 20 " | 20 " | 20 " |
| **Nozzles/Row:** | 2 | 2 | 2 |
| **Carrier:** | Water | Water | Water |
| **Spray Volume, Unit:** | 15 GPA | 15 GPA | 15 GPA |
| **Propellant:** | CO2 | CO2 | CO2 |

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Trial ID: SJ05C005 Study Dir.: HMS003A4-2005US
Location: Investigator: Bill Williams

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Weed Code | | | | | BRAPP | | BRAPP | | BRAPP | BRAPP |
| Crop Code | | | | | | | | | | |
| Part Rated | | | | | PLTAT P | | PLTAT P | | PLTAT P | PLTAT P |
| Rating Data Type | | | | | CONTROL | | CONTROL | | CONTROL | CONTROL |
| Rating Unit | | | | | % | | % | | % | % |
| Rating Date | | | | | 4/12/05 | | 4/28/05 | | 5/11/05 | 5/26/05 |
| Trt-Eval Interval | | | | | 8 DA-A | | 6 DA-C | | 19 DA-C | 34 DA-C |
| ARM Action Codes | | | | | | | | | | |
| # Subsamples, Dec. | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Rate Unit | Grow Stg | 1 | | 2 | | 3 | 4 |
| 1 | nontreated | | | | 0 | e | 0 | e | 0 | f 0 f |
| 2 | Lexar | 3 | QT/A | PRE | 70 | d | 63 | d | 53 | e 43 e |
| 3 | Lexar | 3.5 | QT/A | PRE | 95 | a | 93 | a | 93 | a 90 a |
| 4 | Bicep II Magnum | 2.1 | QT/A | PRE | 88 | b | 90 | a | 88 | ab 80 c |
| 5 | Lumax | 2.5 | QT/A | PRE | 95 | a | 92 | a | 93 | a 83 bc |
| 6 | Lexar | 3 | QT/A | PRE | 80 | c | 92 | a | 90 | a 87 ab |
| | Princep 4FL | 1 | QT/A | PRE | | | | | | |
| 7 | Guardsman Max | 3 | PT/A | PRE | 90 | b | 92 | a | 82 | bc 70 d |
| 8 | Harness Xtra | 2 | QT/A | PRE | 88 | b | 90 | a | 92 | a 80 c |
| 9 | Epic | 10 | OZ/A | PRE | 72 | d | 82 | bc | 72 | d 70 d |
| 10 | Keystone | 2.6 | QT/A | PRE | 90 | b | 90 | a | 88 | ab 73 d |
| 11 | Lexar | 3 | QT/A | V1 | 0 | e | 90 | a | 92 | a 90 a |
| | NIS | 0.25 | % V/V | V1 | | | | | | |
| 12 | Bicep II Magnum | 2.1 | QT/A | V1 | 0 | e | 80 | c | 82 | bc 80 c |
| | NIS | 0.25 | % V/V | V1 | | | | | | |
| 13 | Steadfast | 0.5 | OZ/A | EPOST | 0 | e | 88 | ab | 92 | a 82 c |
| | Atrazine | 2 | QT/A | EPOST | | | | | | |
| | COC | 1 | % V/V | EPOST | | | | | | |
| 14 | Roundup Weathermax | 22 | OZ/A | EPOST | 0 | e | 93 | a | 93 | a 82 c |
| | Atrazine | 2 | QT/A | EPOST | | | | | | |
| 15 | Lexar | 3 | QT/A | V1 | 0 | e | 92 | a | 92 | a 88 a |
| 16 | Bicep II Magnum | 2.1 | QT/A | V1 | 0 | e | 60 | d | 75 | cd 72 d |
| LSD (P=.05) | | | | | 2.1 | | 6.8 | | 7.7 | 4.4 |
| Bartlett's X2 | | | | | 0.0 | | 7.242 | | 12.335 | 3.15 |
| P(Bartlett's X2) | | | | | 1.00 | | 0.779 | | 0.50 | 0.871 |

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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| Trt No. | Treatment Name | Rate | Rate Unit | Grow Stg | 5 | | 6 | | 7 | | 8 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weed Code | | | | BRAPP | | DIGSA | | CASOB | | CASOB | |
| | Crop Code | | | | | | | | | | | |
| | Part Rated | | | | PLTAT | P | PLTAT | P | PLTAT | P | PLTAT | P |
| | Rating Data Type | | | | CONTROL | | CONTROL | | CONTROL | | CONTROL | |
| | Rating Unit | | | | % | | % | | % | | % | |
| | Rating Date | | | | 7/27/05 | | 7/27/05 | | 4/12/05 | | 4/28/05 | |
| | Trt-Eval Interval | | | | 96 DA-C | | 96 DA-C | | 8 DA-A | | 6 DA-C | |
| | ARM Action Codes | | | | | | | | | | | |
| | # Subsamples, Dec. | | | | | | | | | | | |
| 1 | nontreated | | | | 0 | h | 0 | k | 0 | e | 0 | e |
| 2 | Lexar | 3 | QT/A | PRE | 43 | g | 73 | ghi | 80 | c | 70 | c |
| 3 | Lexar | 3.5 | QT/A | PRE | 92 | a | 93 | a | 95 | a | 90 | ab |
| 4 | Bicep II Magnum | 2.1 | QT/A | PRE | 77 | cd | 82 | c-f | 95 | a | 92 | ab |
| 5 | Lumax | 2.5 | QT/A | PRE | 85 | ab | 88 | abc | 95 | a | 92 | ab |
| 6 | Lexar | 3 | QT/A | PRE | 87 | ab | 90 | ab | 90 | b | 93 | a |
| | Princep 4FL | 1 | QT/A | PRE | | | | | | | | |
| 7 | Guardsman Max | 3 | PT/A | PRE | 67 | ef | 85 | bcd | 95 | a | 88 | ab |
| 8 | Harness Xtra | 2 | QT/A | PRE | 80 | bc | 80 | d-g | 95 | a | 87 | b |
| 9 | Epic | 10 | OZ/A | PRE | 63 | f | 77 | e-h | 70 | d | 70 | c |
| 10 | Keystone | 2.6 | QT/A | PRE | 63 | f | 68 | ij | 95 | a | 90 | ab |
| 11 | Lexar | 3 | QT/A | V1 | 90 | a | 83 | b-e | 0 | e | 90 | ab |
| | NIS | 0.25 | % V/V | V1 | | | | | | | | |
| 12 | Bicep II Magnum | 2.1 | QT/A | V1 | 80 | bc | 73 | ghi | 0 | e | 62 | d |
| | NIS | 0.25 | % V/V | V1 | | | | | | | | |
| 13 | Steadfast | 0.5 | OZ/A | EPOST | 77 | cd | 70 | hij | 0 | e | 92 | ab |
| | Atrazine | 2 | QT/A | EPOST | | | | | | | | |
| | COC | 1 | % V/V | EPOST | | | | | | | | |
| 14 | Roundup Weathermax | 22 | OZ/A | EPOST | 70 | def | 75 | f-i | 0 | e | 93 | a |
| | Atrazine | 2 | QT/A | EPOST | | | | | | | | |
| 15 | Lexar | 3 | QT/A | V1 | 87 | ab | 83 | b-e | 0 | e | 92 | ab |
| 16 | Bicep II Magnum | 2.1 | QT/A | V1 | 73 | cde | 63 | j | 0 | e | 0 | e |
| | LSD (P=.05) | | | | 8.0 | | 7.8 | | 0.0 | | 6.3 | |
| | Bartlett's X2 | | | | 0.39 | | 3.467 | | 0.0 | | 7.028 | |
| | P(Bartlett's X2) | | | | 1.00 | | 0.996 | | . | | 0.797 | |

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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| Trt No. | Treatment Name | Rate | Rate Unit | Grow Stg | 9 | | 10 | | 11 | | 12 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weed Code | | | | CASOB | | CASOB | | CASOB | | SIDSP | |
| | Crop Code | | | | | | | | | | | |
| | Part Rated | | | | PLTAT P | | PLTAT P | | PLTAT P | | PLTAT P | |
| | Rating Data Type | | | | CONTROL | | CONTROL | | CONTROL | | CONTROL | |
| | Rating Unit | | | | % | | % | | % | | % | |
| | Rating Date | | | | 5/11/05 | | 5/26/05 | | 7/27/05 | | 4/28/05 | |
| | Trt-Eval Interval | | | | 19 DA-C | | 34 DA-C | | 96 DA-C | | 6 DA-C | |
| | ARM Action Codes | | | | | | | | | | | |
| | # Subsamples, Dec. | | | | | | | | | | | |
| 1 | nontreated | | | | 0 | h | 0 | f | 0 | f | 0 | d |
| 2 | Lexar | 3 | QT/A | PRE | 70 | ef | 67 | c | 63 | cd | 93 | a |
| 3 | Lexar | 3.5 | QT/A | PRE | 95 | a | 95 | a | 87 | a | 92 | a |
| 4 | Bicep II Magnum | 2.1 | QT/A | PRE | 73 | e | 70 | b | 67 | bc | 92 | a |
| 5 | Lumax | 2.5 | QT/A | PRE | 95 | a | 95 | a | 87 | a | 92 | a |
| 6 | Lexar | 3 | QT/A | PRE | 88 | abc | 93 | a | 85 | a | 93 | a |
| | Princep 4FL | 1 | QT/A | PRE | | | | | | | | |
| 7 | Guardsman Max | 3 | PT/A | PRE | 63 | fg | 60 | d | 57 | de | 92 | a |
| 8 | Harness Xtra | 2 | QT/A | PRE | 88 | abc | 95 | a | 67 | bc | 90 | a |
| 9 | Epic | 10 | OZ/A | PRE | 70 | ef | 70 | b | 60 | cde | 93 | a |
| 10 | Keystone | 2.6 | QT/A | PRE | 77 | de | 70 | b | 53 | e | 93 | a |
| 11 | Lexar | 3 | QT/A | V1 | 88 | abc | 95 | a | 73 | b | 90 | a |
| | NIS | 0.25 | % V/V | V1 | | | | | | | | |
| 12 | Bicep II Magnum | 2.1 | QT/A | V1 | 60 | g | 50 | e | 0 | f | 65 | b |
| | NIS | 0.25 | % V/V | V1 | | | | | | | | |
| 13 | Steadfast | 0.5 | OZ/A | EPOST | 87 | bc | 95 | a | 75 | b | 92 | a |
| | Atrazine | 2 | QT/A | EPOST | | | | | | | | |
| | COC | 1 | % V/V | EPOST | | | | | | | | |
| 14 | Roundup Weathermax | 22 | OZ/A | EPOST | 93 | ab | 95 | a | 93 | a | 93 | a |
| | Atrazine | 2 | QT/A | EPOST | | | | | | | | |
| 15 | Lexar | 3 | QT/A | V1 | 83 | cd | 95 | a | 87 | a | 92 | a |
| 16 | Bicep II Magnum | 2.1 | QT/A | V1 | 0 | h | 0 | f | 0 | f | 53 | c |
| LSD (P=.05) | | | | | 6.8 | | 2.6 | | 8.3 | | 5.8 | |
| Bartlett's X2 | | | | | 4.131 | | 0.879 | | 3.446 | | 7.882 | |
| P(Bartlett's X2) | | | | | 0.845 | | 0.349 | | 0.983 | | 0.851 | |

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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| Trt No. | Treatment Name | Rate | Rate Unit | Grow Stg | 13 | | 14 | | 15 | | 16 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weed Code | | | | SIDSP | | SIDSP | | SIDSP | | IPOHE | |
| | Crop Code | | | | | | | | | | | |
| | Part Rated | | | | PLTAT P | | PLTAT P | | PLTAT P | | PLTAT P | |
| | Rating Data Type | | | | CONTROL | | CONTROL | | CONTROL | | CONTROL | |
| | Rating Unit | | | | % | | % | | % | | % | |
| | Rating Date | | | | 5/11/05 | | 5/26/05 | | 7/27/05 | | 5/11/05 | |
| | Trt-Eval Interval | | | | 19 DA-C | | 34 DA-C | | 96 DA-C | | 19 DA-C | |
| | ARM Action Codes | | | | | | | | | | | |
| | # Subsamples, Dec. | | | | | | | | | | | |
| 1 | nontreated | | | | 0 | e | 0 | c | 0 | e | 0 | d |
| 2 | Lexar | 3 | QT/A | PRE | 92 | ab | 93 | a | 90 | abc | 83 | c |
| 3 | Lexar | 3.5 | QT/A | PRE | 95 | a | 95 | a | 93 | a | 95 | a |
| 4 | Bicep II Magnum | 2.1 | QT/A | PRE | 90 | ab | 95 | a | 83 | c | 92 | b |
| 5 | Lumax | 2.5 | QT/A | PRE | 95 | a | 95 | a | 93 | a | 95 | a |
| 6 | Lexar | 3 | QT/A | PRE | 95 | a | 95 | a | 92 | ab | 95 | a |
| | Princep 4FL | 1 | QT/A | PRE | | | | | | | | |
| 7 | Guardsman Max | 3 | PT/A | PRE | 92 | ab | 95 | a | 92 | ab | 92 | b |
| 8 | Harness Xtra | 2 | QT/A | PRE | 87 | b | 95 | a | 85 | bc | 95 | a |
| 9 | Epic | 10 | OZ/A | PRE | 93 | a | 95 | a | 88 | abc | 95 | a |
| 10 | Keystone | 2.6 | QT/A | PRE | 95 | a | 95 | a | 87 | abc | 95 | a |
| 11 | Lexar | 3 | QT/A | V1 | 95 | a | 95 | a | 93 | a | 95 | a |
| | NIS | 0.25 | % V/V | V1 | | | | | | | | |
| 12 | Bicep II Magnum | 2.1 | QT/A | V1 | 63 | c | 63 | b | 60 | d | 95 | a |
| | NIS | 0.25 | % V/V | V1 | | | | | | | | |
| 13 | Steadfast | 0.5 | OZ/A | EPOST | 95 | a | 95 | a | 90 | abc | 95 | a |
| | Atrazine | 2 | QT/A | EPOST | | | | | | | | |
| | COC | 1 | % V/V | EPOST | | | | | | | | |
| 14 | Roundup Weathermax | 22 | OZ/A | EPOST | 95 | a | 95 | a | 88 | abc | 95 | a |
| | Atrazine | 2 | QT/A | EPOST | | | | | | | | |
| 15 | Lexar | 3 | QT/A | V1 | 93 | a | 95 | a | 92 | ab | 95 | a |
| 16 | Bicep II Magnum | 2.1 | QT/A | V1 | 53 | d | 0 | c | 0 | e | 93 | ab |
| | LSD (P=.05) | | | | 5.8 | | 2.7 | | 6.9 | | 3.2 | |
| | Bartlett's X2 | | | | 4.206 | | 0.879 | | 6.526 | | 1.64 | |
| | P(Bartlett's X2) | | | | 0.756 | | 0.349 | | 0.769 | | 0.65 | |

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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| Trt No. | Treatment Name | Rate | Rate Unit | Grow Stg | 17 | | 18 | | 19 | | 20 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weed Code | | | | IPOHE | | IPOHE | | | | | |
| | Crop Code | | | | | | | | ZEAMX | | ZEAMX | |
| | Part Rated | | | | PLTAT P | | PLTAT P | | PLATOT C | | GRAIN C | |
| | Rating Data Type | | | | CONTROL | | CONTROL | | PHYGEN | | Lb/plt | |
| | Rating Unit | | | | % | | % | | % | | 15% | |
| | Rating Date | | | | 5/26/05 | | 7/27/05 | | 4/28/05 | | 9/2/05 | |
| | Trt-Eval Interval | | | | 34 DA-C | | 96 DA-C | | 24 DA-A | | | |
| | ARM Action Codes | | | | | | | | | | | |
| | # Subsamples, Dec. | | | | | | | | | | | |
| 1 | nontreated | | | | 0 | b | 0 | d | 0 | b | 4 | f |
| 2 | Lexar | 3 | QT/A | PRE | 93 | a | 93 | ab | 0 | b | 20 | d |
| 3 | Lexar | 3.5 | QT/A | PRE | 95 | a | 95 | a | 0 | b | 26 | a |
| 4 | Bicep II Magnum | 2.1 | QT/A | PRE | 95 | a | 87 | bc | 0 | b | 26 | a |
| 5 | Lumax | 2.5 | QT/A | PRE | 95 | a | 93 | ab | 0 | b | 26 | a |
| 6 | Lexar | 3 | QT/A | PRE | 95 | a | 92 | ab | 0 | b | 24 | abc |
| | Princep 4FL | 1 | QT/A | PRE | | | | | | | | |
| 7 | Guardsman Max | 3 | PT/A | PRE | 95 | a | 92 | ab | 0 | b | 21 | cd |
| 8 | Harness Xtra | 2 | QT/A | PRE | 95 | a | 90 | abc | 0 | b | 23 | a-d |
| 9 | Epic | 10 | OZ/A | PRE | 95 | a | 88 | abc | 0 | b | 21 | cd |
| 10 | Keystone | 2.6 | QT/A | PRE | 95 | a | 83 | c | 0 | b | 22 | bcd |
| 11 | Lexar | 3 | QT/A | V1 | 95 | a | 93 | ab | 0 | b | 23 | a-d |
| | NIS | 0.25 | % V/V | V1 | | | | | | | | |
| 12 | Bicep II Magnum | 2.1 | QT/A | V1 | 93 | a | 92 | ab | 0 | b | 24 | abc |
| | NIS | 0.25 | % V/V | V1 | | | | | | | | |
| 13 | Steadfast | 0.5 | OZ/A | EPOST | 95 | a | 87 | bc | 7 | a | 22 | cd |
| | Atrazine | 2 | QT/A | EPOST | | | | | | | | |
| | COC | 1 | % V/V | EPOST | | | | | | | | |
| 14 | Roundup Weathermax | 22 | OZ/A | EPOST | 95 | a | 95 | a | 0 | b | 25 | ab |
| | Atrazine | 2 | QT/A | EPOST | | | | | | | | |
| 15 | Lexar | 3 | QT/A | V1 | 95 | a | 92 | ab | 0 | b | 11 | e |
| 16 | Bicep II Magnum | 2.1 | QT/A | V1 | 95 | a | 87 | bc | 0 | b | 11 | e |
| LSD (P=.05) | | | | | 1.7 | | 6.7 | | 2.4 | | 3.2 | |
| Bartlett's X2 | | | | | 0.0 | | 8.136 | | 0.0 | | 9.984 | |
| P(Bartlett's X2) | | | | | 1.00 | | 0.701 | | . | | 0.763 | |

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

LSU Northeast Research Station

| | | | | | | |
|---|---|---|---|---|---|---|
| Weed Code | | | | | | |
| Crop Code | | | | | ZEAMX | |
| Part Rated | | | | | GRAIN C | |
| Rating Data Type | | | | | Bu/A | |
| Rating Unit | | | | | 15% mst | |
| Rating Date | | | | | 9/2/05 | |
| Trt-Eval Interval | | | | | | |
| ARM Action Codes | | | | | TY1 | |
| # Subsamples, Dec. | | | | | 0 | |
| Trt No. | Treatment Name | Rate | Rate Unit | Grow Stg | 21 | |
| 1 | nontreated | | | | 25 | f |
| 2 | Lexar | 3 | QT/A | PRE | 123 | d |
| 3 | Lexar | 3.5 | QT/A | PRE | 158 | a |
| 4 | Bicep II Magnum | 2.1 | QT/A | PRE | 160 | a |
| 5 | Lumax | 2.5 | QT/A | PRE | 160 | a |
| 6 | Lexar | 3 | QT/A | PRE | 148 | abc |
| | Princep 4FL | 1 | QT/A | PRE | | |
| 7 | Guardsman Max | 3 | PT/A | PRE | 129 | cd |
| 8 | Harness Xtra | 2 | QT/A | PRE | 141 | a-d |
| 9 | Epic | 10 | OZ/A | PRE | 131 | cd |
| 10 | Keystone | 2.6 | QT/A | PRE | 137 | bcd |
| 11 | Lexar | 3 | QT/A | V1 | 141 | a-d |
| | NIS | 0.25 | % V/V | V1 | | |
| 12 | Bicep II Magnum | 2.1 | QT/A | V1 | 145 | abc |
| | NIS | 0.25 | % V/V | V1 | | |
| 13 | Steadfast | 0.5 | OZ/A | EPOST | 133 | cd |
| | Atrazine | 2 | QT/A | EPOST | | |
| | COC | 1 | % V/V | EPOST | | |
| 14 | Roundup Weathermax | 22 | OZ/A | EPOST | 153 | ab |
| | Atrazine | 2 | QT/A | EPOST | | |
| 15 | Lexar | 3 | QT/A | V1 | 66 | e |
| 16 | Bicep II Magnum | 2.1 | QT/A | V1 | 65 | e |
| LSD (P=.05) | | | | | 19.9 | |
| Bartlett's X2 | | | | | 9.984 | |
| P(Bartlett's X2) | | | | | 0.763 | |

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Column 21: TY1 = 6.137908*[20]